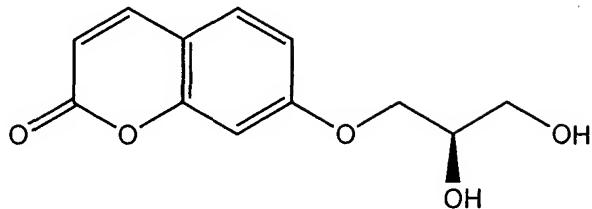


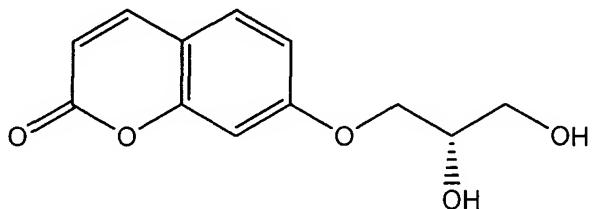
CLAIMS

We claim:

1. A compound having the formula:

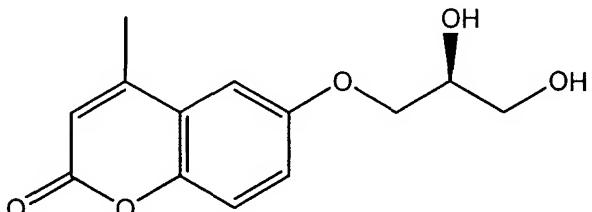


2. A compound having the formula:

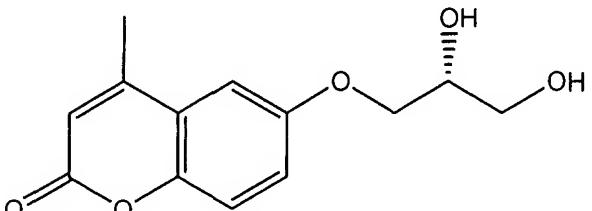


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3. A compound having the formula:

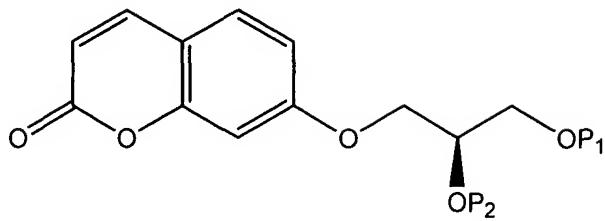


4. A compound having the formula:



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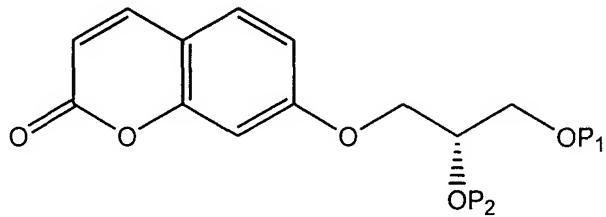
5. A compound having the formula:



5 wherein P₁ and P₂, independently, are protecting groups.

6. The compound of claim 5, wherein P₁ is a trityl.
7. The compound of claim 5, wherein P₂ is a phosphoramidite.
8. The compound of claim 5, wherein P₁ is a trityl and P₂ is a phosphoramidite.
9. A compound having the formula:

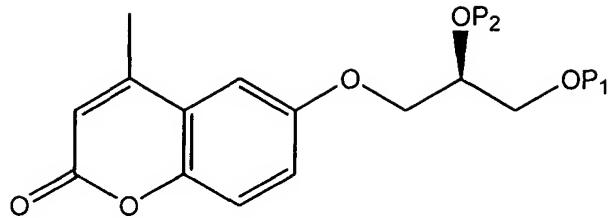
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wherein P₁ and P₂, independently, are protecting groups.

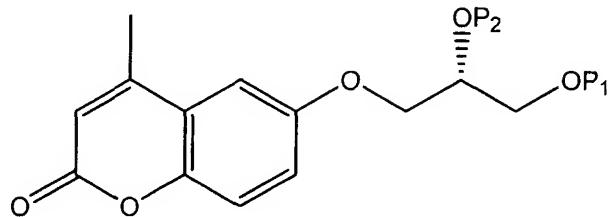
- 15 10. The compound of claim 9, wherein P₁ is a trityl.
11. The compound of claim 9, wherein P₂ is a phosphoramidite.
12. The compound of claim 9, wherein P₁ is a trityl and P₂ is a phosphoramidite.

13. A compound having the formula:



5 wherein P₁ and P₂, independently, are protecting groups.

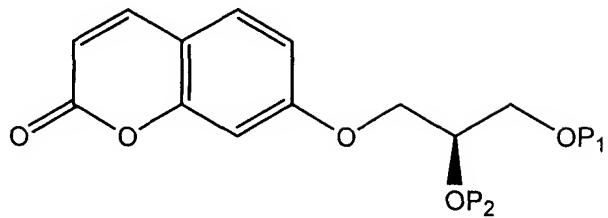
14. The compound of claim 13, wherein P₁ is a trityl.
15. The compound of claim 13, wherein P₂ is a phosphoramidite.
16. The compound of claim 13, wherein P₁ is a trityl and P₂ is a phosphoramidite.
10 17. A compound having the formula:



wherein P₁ and P₂, independently, are protecting groups.

- 15
18. The compound of claim 17, wherein P₁ is a trityl.
19. The compound of claim 17, wherein P₂ is a phosphoramidite.
20. The compound of claim 17, wherein P₁ is a trityl and P₂ is a phosphoramidite.

21. A compound having the formula:



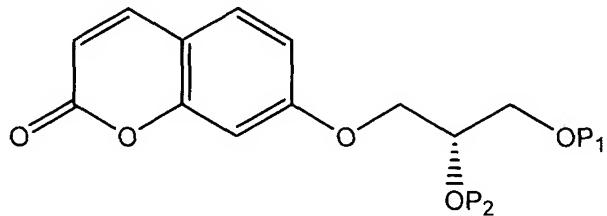
5 wherein one of P₁ and P₂ is a protecting group and the other is a hydrogen atom.

22. The compound of claim 21, wherein P₁ is a trityl.

23. The compound of claim 21, wherein P₂ is a phosphoramidite.

24. A compound having the formula:

10

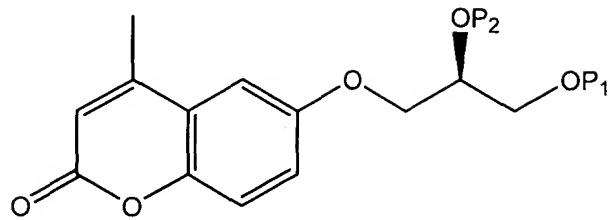


wherein one of P₁ and P₂ is a protecting group and the other is a hydrogen atom.

15 25. The compound of claim 24, wherein P₁ is a trityl.

26. The compound of claim 24, wherein P₂ is a phosphoramidite.

27. A compound having the formula:



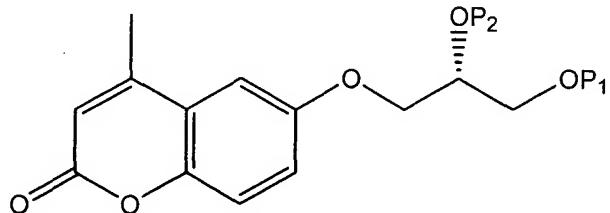
5 wherein one of P_1 and P_2 , is a protecting group and the other is a hydrogen atom.

28. The compound of claim 27, wherein P₁ is a trityl.

29. The compound of claim 27, wherein P₂ is a phosphoramidite.

30. A compound having the formula:

10



wherein one of P₁ and P₂, is a protecting group and the other is a hydrogen atom.

15 31. The compound of claim 30, wherein P₁ is a trityl.

32. The compound of claim 30, wherein P₂ is a phosphoramidite.